

THIRD-ORDER LEVELING  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

37-082-13  
WILLIAMSON QUADRANGLE  
112 KY.-20 W. VA.  
N3730-W8215/15  
DIAGRAM NJ 17-7  
JENKINS

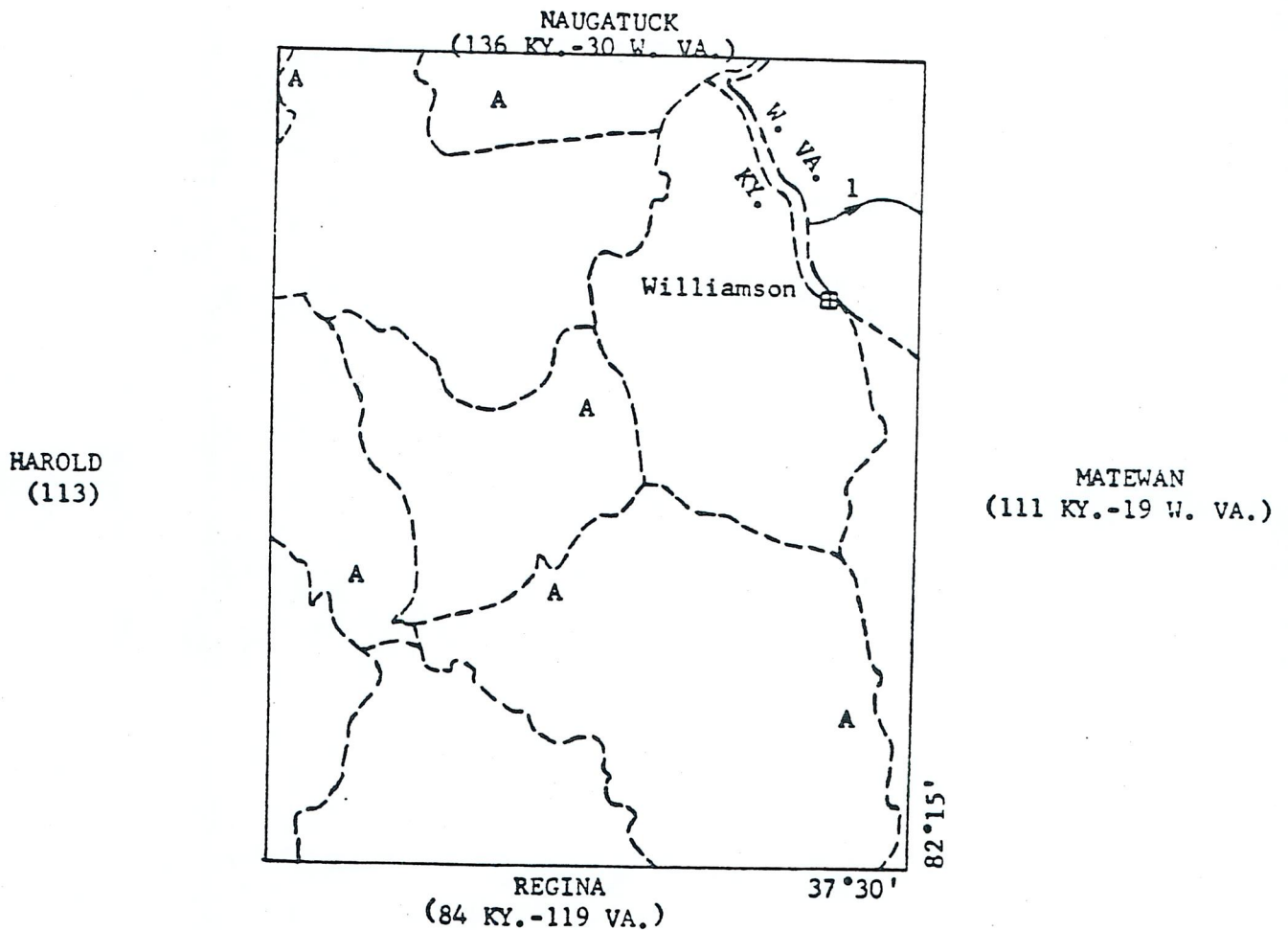
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Martin and Pike Counties, KY;  
Mingo County, W. VA.

Final adjustment of 1974

Edition of 5/28/74

PR:WSM/mid



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 370821

INDEX OF PERMANENT MARKS

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675	3		
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804 KY	5		
817 KY	5	W 46 1935	5
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ISOLATED BENCH MARKS (By T. A. Green, 1909; S. R. Archer, 1915; G. W. Lucas, 1915; Books A 8145, A 8158, A 9580, A 9587)	<u>Feet</u>
Williamson, at SW. corner of intersection of Fifth Avenue and Harvey St.; in top of stone post; standard meridian tablet stamped "675"	674.782
Williamson at courthouse; U. S. Army Engineers' bench mark No. 30	660.476
Chattaroy, 400 ft E. of station; 35 ft E. of milepost 474; on N. side of railroad; in sandstone ledge; standard tablet stamped "654" (Reported not found, 1953)	653.968
Hatfield, 0.8 mi NW. of; 500 ft E. of milepost 477; 60 ft N. of railroad; E. side of county rd.; in sandstone ledge; standard tablet stamped "650" (Reported not found, 1953)	650.015
Stone, 150 ft NE. of Williamson & Pond Creek RR. station; standard tablet set in W. guardrail of small stone culvert; stamped "TT 1915 782" (Tied by NGS, 1952) (Not found, 1975)	781.842
Sharondale; 75 ft SE. of SE. corner of school; 50 ft W. of store; 38 ft NE. of RR. crossing; 7 ft E. of E. rail; 33 ft W. of rd. N.; 150 ft E. of junction of U.S. Highway 119 at T-rd. E.; in N. end of E. stone abutment of small RR. bridge; standard tablet stamped "1915 723"	723.620
Toler, in concrete support of Williamson & Pond Creek RR. water tank; standard tablet stamped "1917 679" (Reported not found, 1953)	679.368
Nolan, W. Va., 2.30 mi NW. of; 130 ft NW. of rd. crossing; 100 ft W. of milepost 480, 70 ft N. of deserted house (now destroyed) in 15-by 10-by 10-ft.; in sandstone boulder standard tablet stamped "645"	644.857
Nolan, W. Va., 0.3 mi N. of Norfolk & Western RR. station; in school-house yard; 110 ft W. of railroad track; 180 ft S. of schoolhouse (on cap of U. S. Army Engineers b.m. post 26, top of letter B)	642.440
White Post post office, 1.32 mi SW. of; 0.15 mi N. of mouth of Chaffin Branch; 0.12 mi N. of residence of John Stepp; 210 ft S. of small branch from East; at foot of end of low spur from E.; on E. side of rd.; in sandstone outcrop; standard tablet stamped "643"KY" (Reported destroyed, 1953)	643.312
Rural post office, 0.2 mi E. of, thence 1.73 mi SW.; 0.15 mi SW. of mouth of Long Fork; 750 ft W. of bend in Big Creek to W.; opposite and 280 ft W. of house standing on S. side of Big Creek; opposite and 100 ft E. of mouth of branch from south; 150 ft E. of bend in Big Creek; opposite and 100 ft E. of mouth of branch from south; 150 ft E. of bend in Big Creek to NW. on N. side of Big Creek inside of fenceline; top of large sandstone boulder; standard tablet stamped "662 KY"	662.132

ISOLATED BENCH MARKS (Cont'd.)Feet

- Couder post office, 0.94 mi SW. of rd. forks;  $\frac{1}{2}$  mi S. of mouth of Rockhouse Creek; on W. side of Big Creek at rd. forks; in rock ledge; standard tablet stamped "681 KY." 681.012
- Couder post office, 4.06 mi SW. of; at mouth of Walnut Fork near head of Middle Fork of Rockhouse Creek; 125 ft NE. of mouth of Walnut Fork; 150 ft NE. of Ken Young's store; 100 ft N. of his barn; 200 ft E. of his residence; 125 ft N. of rd.; inside of field at foot of hill on N. bank of Middle Fork; in top of sandstone outcrop;  $1\frac{1}{2}$  ft above bed of creek; standard tablet stamped "839 KY" 839.552
- Varney post office, 0.78 mi NW. of; at mouth of Hurricane Fork on Left Fork of Brushy Creek; at W. side and 10 ft below rd.; in top of sandstone outcrop; standard tablet stamped "KY 857.429" (Tied by NGS, 1952) 857.429
- Jarad post office; on opposite side of Brushy Creek and 85 ft N. of; 0.30 mi N. of forks of Brushy Creek; E. bank of Brushy Creek; W. side of rd.; at point where rd. leading to Scott's store leaves main rd.; in top of large sandstone rock; standard tablet stamped "KY 731.619" (Tied by NGS, 1952) 731.619
- Joel, 6.37 mi NW. of Meta post office; 175 ft N. of rd. forks at mouth of Scotts Branch; on E. bank of Scotts Branch opposite and 50 ft N. of barn; in top of sandstone outcrop 4 ft. above water; standard tablet stamped "706 KY" (Tied by NGS, 1952) (Reported destroyed, 1975) 706.344
- Meta post office, 2. mi W. of; 0.75 mi E. of mouth of Coon Creek; 300 ft W. of mouth of Ford Branch; 350 ft S. of rd. forks; N. concrete abutment; in top W. end of steel highway bridge over Johns Creek; standard tablet stamped "734 KY" 734.127
- Meta Post Office, 1. mi. W. of, thence 2 mi. SE. of; at mouth of Bevens Branch (old map Blerin Creek); 40 ft N. of branch; 40 ft E. of rd.; 100 ft NW. of house in mouth of branch; 32 ft above branch; at end of spur ridge from N.; in top of sandstone rock, standard tablet stamped "797 KY" 797.247
- Deskin post office, 2.50 mi NW. of 0.5 mi NW. of rd. forks at mouth of Lawson Branch; at mouth of Richardson Branch; 130 ft S. of point where rd. crosses branch; 120 ft NE. of residence of Mrs. Johnson; 20 ft above and on E. bank of branch; in top of projection of exposed rock ledge standard tablet stamped "827 KY" (Reported destroyed, 1953) 827.335

ISOLATED BENCH MARKS (Cont'd.)

	<u>Feet</u>
Diskin post office, 700 ft N. of; 250 ft N. of mouth of Meathouse Creek; 100 ft S. of bend in Johns Creek to W.; on E. bank of Johns Creek; at foot of hill; under buckeye tree 18-in. in diameters; top projection of sandstone rock; standard tablet stamped "817 KY" (Not found, 1975)	816.995
Deskin post office, 3. mi. E. of; 700 ft W. of mouth of Rockhouse Fork of Meathouse Creek; 400 ft E. of house standing on N. side of rd. and creek; on S. side of rd. and Meathouse Creek; 20 ft S. of S. fenceline; 40 ft S. of creek; in top of large sandstone rock; standard tablet stamped "1021 KY" (Reported destroyed, 1953)	1021.097
Canada post office, 2.98 mi S. of; 0.37 mi SE. of Benton Branch; 200 ft N. of mouth of Daniel Fork (a small branch from E.); 400 ft N. of residence of B. S. Smith; 375 ft S. of Fred Smith's residence; on S. side of rd. and Meathouse Fork; 6 ft above rd. under beech tree 20 in. in diameter; in face of rock outcrop; standard tablet stamped "1028 KY" (Reported good, 1953)	1028.333
Canada post office, 250 ft W. of; 110 ft W. of rd. forks; 30 ft W. of mouth of Meathouse Fork; under service tree; in projection of rock cliff; standard tablet stamped "804 KY" (Reported not found, 1954)	804.002
Canada post office, 1.91 mi NW. of; opposite and 30 ft NW. of line through center of mouth of Road Fork; on E. bank of Big Creek; 90 ft SE. of line between property of T. J. Bevin and Lydia Smith; on outside and at foot of fence; in top of 6-by 10-in. by 4-ft sandstone rock; standard tablet stamped "745 KY" (Reported not found, 1954)	745.340

LINE 1.

By R. H. Paine, 1959; Book AV 806

7	49	0.00	"W 46 1935" (NGS)	655.885
7	51	1.20	U.E., Chattaroy, 1.1 mi E. of; 1 ft higher than centerline of rd. at drain; on N. concrete headwall of culvert; chiseled square	675.54
7	52	1.59	Chattaroy, 1.5 mi E. of; at mouth of S. fork; 26 ft N. of, and 6 ft higher than paved rd.; in S. face of large rock cut; standard tablet stamped "131 RHP 1959 705"	704.664
7	53	2.42	U.E., Chattaroy, 2.3 mi E. of; at front of church; 1 ft higher than centerline of rd.; on N. concrete headwall of culvert; chiseled square	757.72

HORIZONTAL CONTROL  
NORTH AMERICAN DATUM OF 1927

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

37-082-13  
WILLIAMSON QUADRANGLE  
112 KY.-20 W.VA.  
N3730-W8215/15  
DIAGRAM NJ 17-7  
JENNIFER

Martin and Pike Counties, Kentucky;  
Mingo County, West Virginia

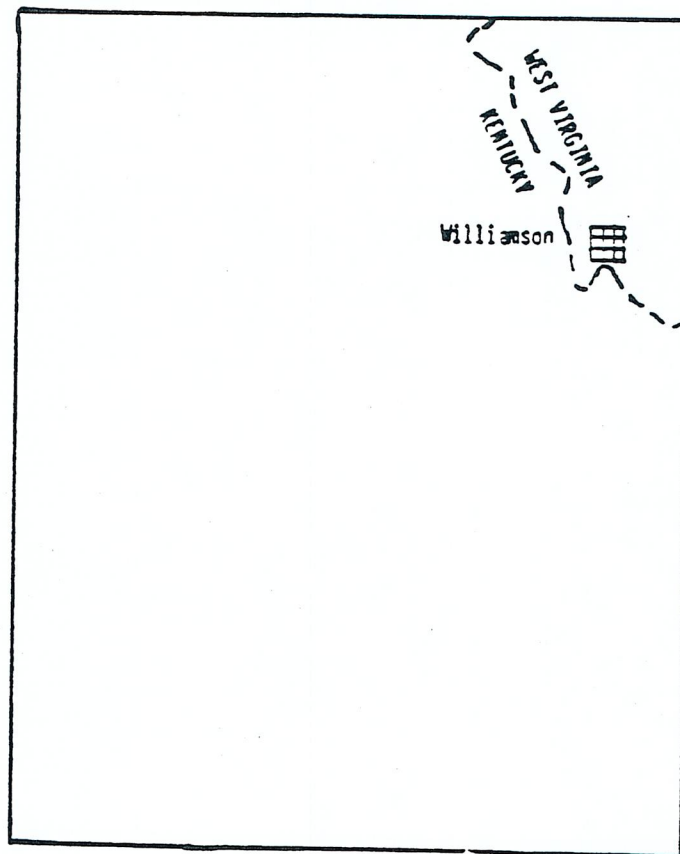
Edition of 10/12/77

PR: CRV/rmm

Plane coordinates are based on Lambert projection  
Kentucky, South Zone and West Virginia, South Zone

Only the permanent marks are  
listed for control classified  
obsolete and are not shown on  
sketch

NAUGATUCK  
(30 W.VA.-136 KY.)



HAROLD  
(113)

MATEWAN  
(19 W.VA.-111 KY.-140 VA.)

REGINA  
(84 KY.-119 VA.)

37°30'

82°15'

DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

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112 KY.-20 W.VA.  
WILLIAMSON QUADRANGLE

37-082-13  
3

STATION	DESCRIPTION	LATITUDE	LONGITUDE
PLANE COORDINATES, FEET		• ' "	• ' "

The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

By I. W. Cayce, 1951-1952; Book AH 270

Threeforks, 1.6 mi S. of post office; 20 ft N. and 30 ft E. of center of ford; 4 ft S. of sandstone cliff; in concrete post; standard tablet stamped "TI 46 IWC 1951"

Ky. S.)	X = 2,949,301	Y = 530,403	37 44 41.35	82 27 58.88
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Threeforks, 3.2 mi SW. of post office; 3 ft S. and 10 ft E. of centerline of rd. at footbridge NW.; 11 ft E. of driveway S.; 16 ft NW. of picket fence; in concrete post; standard tablet stamped "TI 47 IWC 1951"

	X = 2,944,688	Y = 525,011	37 43 49.66	82 28 58.60
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Threeforks, 5.0 mi SW. of post office; 37 ft S. of junction of Runyon, Petercove and Creek Road Hollows; 42 ft E. of SE. corner of log barn; 11 ft SE. of centerline of Creek Road; in concrete post; standard tablet stamped "TI 48 IWC 1951"

	X = 2,946,396	Y = 516,854	37 42 28.47	82 28 40.87
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Heenon, 0.9 mi N. of, along trail; at apple orchard; on Martin-Pike County line; 24 ft SW. of centerline of trail; in concrete post; standard tablet stamped "TI 49 IWC 1952" (Reported destroyed, 1953)

	X = 2,943,685	Y = 506,121	37 40 43.35	82 29 19.20
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Piso, 2.8 mi NW. of, along graveled rd.; 0.3 mi N. of confluence of Brushy Fork and Left Fork; 19 ft SW. of, and 3 ft lower than centerline of rd.; 63 ft NW. of NE. end of footbridge SW. to farmhouse; on NE. bank of creek; in sandstone rock; standard tablet stamped "732 KY"

	X = 2,945,211	Y = 501,629	37 39 58.44	82 29 02.16
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Piso, 2.6 mi NW. of, along dirt rd.; 54 ft S. and 37 ft E. of junction of T-rd. S.; 15 ft S. of NW. fence corner of cultivated field; 12 ft N. of NW. corner of schoolbus shed; in concrete post; standard tablet stamped "TI 50 IWC 1952 736.964"

	X = 2,945,995	Y = 500,764	37 39 49.63	82 28 52.79
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Piso, 1.1 mi NW. of post office, along dirt rd.; 78 ft E. of SE. corner of residence of Arzie Runyon; 26 ft N. of centerline of rd.; 18 ft W. of 18-in. birch tree; in concrete post; standard tablet stamped "TI 51 IWC 1952 769.913" (Reported destroyed, 1959)

	X = 2,948,919	Y = 495,082	37 38 52.48	82 28 18.90
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## WILLIAMSON QUADRANGLE

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "
<u>OBsolete MARKS (Cont'd.)</u>			
	Piso, 0.6 mi S. of post office, along dirt rd.; 140 ft SE. of Alleys Grocery Store; 53 ft N. of wooden bridge over stream; 17 ft E. of centerline of rd.; in concrete post; standard tablet stamped "TI 52 TWC 1952" (Reported destroyed, 1953)		
Ky. S.)	X = 2,950,719      Y = 487,396	37 37 35.92	82 27 59.85
	Piso, 2.6 mi SW. of post office, along graveled rd.; 225 ft E. of Tom Price School; 20 ft NE. of centerline of rd.; 52 ft NE. of, and across rd. from confluence of Brushy Fork and Road Fork; 7 ft NW. of NW. corner of Van Pinson Grocery Store; in concrete post; standard tablet stamped "TI 53 TWC 1952 865.021"		
	X = 2,956,846      Y = 481,765	37 36 38.17	82 26 46.18
	Meta, 1.6 mi SW. of post office, along U. S. Highway 119, thence 1.6 mi N. along Ford Branch Road and trail to top of ridge; 70 ft NE. of junction of trails; 10 ft NW. of centerline of main trail; 10 ft NE. of twin 30-in. tree with NW. trunk being hickory and SE. trunk being maple; in concrete post; standard tablet stamped "TI 54 TWC 1952 1515.666" (Not found, 1975)		
	X = 2,958,440      Y = 471,234	37 34 53.52	82 26 29.72
	Meta, 1.8 mi SW. along U. S. Highway 119 from junction with State Highway 632; set in NE. abutment of a steel bridge over Johns Creek; 2 ft NW of curbing; 12 ft NW of center of bridge; 1 ft N. of the NE corner of bridge and about level with road. "TI 55 TWC RESET 1971" Horizontal Position Lost.		
	Meta, 3.15 mi SW. along U. S. Highway 119 from junction with State Highway 632, standard bench mark disk set in drill hole in top of NW. concrete abutment of steel bridge; 12 ft N. of centerline of highway; level with pavement; 6 in S. of N. end of abutment; 2½ ft N. of N. curbing of highway; 198 ft E. of centerline of proposed new highway at station #296 + 30. "TI 56 TWC RESET 1971" Horizontal Position Lost.		
	Pikeville, 5.5 mi NE. of, along U. S. Highway 119; 60 ft NE. of SE. corner of Church of Christ; 38 ft N. and 8 ft E. of junction of T-rd. NW.; 28 ft N. and 20 ft W. of driveway SE.; in concrete post; standard tablet stamped "TI 57 TWC 1952" (Not found, 1956)		
	X = 2,951,181      Y = 452,817	37 31 54.08	82 28 09.03
	Pikeville, 5.5 mi NE. of, along U. S. Highway 119; 0.7 mi NE. of Salem Methodist Church; 33 ft S. of S. corner of Church of Christ; 23 ft NW. of centerline of hwy.; in NW. concrete headwall of culvert over Knob Fork; NGS standard disk stamped "S 318 1952 776.727"		
	X = 2,951,118      Y = 452,701	37 31 52.96	82 28 09.86

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBSOLETE MARKS (Cont'd.)

Pikeville, 3.5 mi NE. of, along U. S. Highway 119; 40 ft S. and 32 ft E. of driveway NE.; 32 ft E. of junction of graveled rd. SW.; 2 ft W. of 3-in. sycamore tree; in concrete post; standard tablet stamped "TI 58 IWC 1952 1047.272" (Not found, 1975)

Ky. S.)	X = 2,946,071	Y = 445,412	37 30 42.66	82 29 15.60
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Molan; 4 ft NW. of N. corner of Norfolk and Western Railway Station; 15 ft SW. of SW. rail of eastbound track; 3 ft SE. of telephone pole; in concrete post; standard tablet stamped "TI 68 IWC 1951 654.129"

	X = 2,988,558	Y = 530,050	37 44 24.10	82 19 50.62
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Molan, 1.8 mi SE. of N. & W. RR. station, along U. S. Highway 52; 290 ft SE. of entrance to airfield; 56 ft S. of N. end and 84 ft W. of S. end of retaining wall between hwy. and RR.; in concrete post; USED standard disk stamped "I 26 B 1942" (Not found, 1963)

	X = 2,994,144	Y = 522,965	37 43 12.09	82 18 44.34
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Chattaroy; 12 rails S. of station, along N. & W. RR.; 25 ft S. of milepost N-474; 19 ft S. of signal control box; 14 ft E. of E. rail; in sandstone outcrop; NGS standard disk stamped "W 46 1935"

	X = 2,998,992	Y = 515,535	37 41 56.93	82 17 47.41
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Williamson, 3.4 mi NW. of post office, along U. S. Highway 52 to side rd. right crossing N. & W. Ry, thence 490 ft N. along tracks; 10 ft W. of W. rail; in concrete post; standard tablet stamped "GOODMAN N 1952"

	X = 2,998,290	Y = 512,583	37 41 28.02	82 17 57.48
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Williamson, 2.1 mi NW. of station, along N. & W. RR.; at U. S. Highway 52 overpass; 5 rails N. of old Highway 52 crossing; 2 rails S. of S. end of tunnel; 17 ft W. of W. rail; in E. face of W. overhead abutment; 7.5 ft N. of S. edge; NGS standard disk stamped "X 46 1935"

	X = 2,999,531	Y = 508,277	37 40 45.03	82 17 44.01
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Williamson; 28 ft S. of center of main W. entrance of post office; 18 ft E. of E. curb of Second Street; in concrete base wall of post office building; NGS standard disk stamped "B 34 1935"

	X = 3,004,403	Y = 506,445	37 40 25.16	82 16 44.29
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Williamson, 2.0 mi S. of post office, along U. S. Highway 119; at junction of State Highway 308; 80 ft NE. of NE. corner of Farmers Supply Company Store; in NW. end of concrete abutment of bridge over Road Fork; standard tablet stamped "TI 90 IWC 1952 654.369"

	X = 3,008,143	Y = 497,962	37 38 59.99	82 16 01.69
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112 KY.-20 W.VA.  
WILLIAMSON QUADRANGLE

37-082-13  
6

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBSOLETE MARKS (Cont'd.)

Williamson, 4.4 mi S. of post office, along U. S. Highway 119; 23 ft S. and 13 ft E. of SE. corner of J. F. Loftis Grocery; 28 ft N. of centerline of hwy.; 1 ft S. and 2 ft E. of fence corner; 2 ft W. of power pole; in concrete post; standard tablet stamped "TI 91 IWC 1952" (Not found, 1963)

Ky. S.) X = 3,010,385 Y = 492,597 37 38 06.16 82 15 36.30

Williamson, 6.8 mi S. of post office, along U. S. Highway 119; at Sharondale Church; 9 ft S. and 70 ft E. of junction of driveway E.; 23 ft S. and 12 ft W. of centerline of driveway at W. end of small wooden bridge over Pond Creek; 16 ft from waters edge; 4 ft S. of light pole; on creek bank; in concrete post; standard tablet stamped "TI 92 IWC 1952" (Not found, 1975)

X = 3,008,159 Y = 484,056 37 36 42.59 82 16 07.87

Stone, 0.2 mi N. of Methodist Church, along State Highway 199; 168 ft NE. of N. corner of N. & W. RR. station; 25 ft SE. of centerline of hwy.; 17 ft N. of junction of drive to station; 5 ft NW. of NW. rail of main track; in SW. end of NW. headwall of stone culvert under tracks; standard tablet stamped "782 1915 IT" (Not found, 1975)

X = 3,008,190 Y = 475,397 37 35 17.02 82 16 11.45

Stone, 2.2 mi S. of station, along N. & W. RR.; 122 ft S. of RR. crossing; 36 ft S. of SW. end of concrete culvert over creek; 23 ft SW. of W. rail; 5 ft NW. of telephone pole; in concrete post; standard tablet stamped "TI 93 IWC 1952 872.931" (Reported destroyed, 1975)

X = 3,011,776 Y = 465,103 37 33 34.01 82 15 31.64

Stone, 4.2 mi SE. of station, along N. & W. RR.; 13 ft E. of centerline of rd.; in S. face of SE. concrete foundation for overhead mine track; standard tablet stamped "TI 94 IWC 1952 1012.383"

X = 3,013,714 Y = 457,033 37 32 13.56 82 15 11.29

Stone, 4.7 mi SE. of, along State Highway 199, thence 3.2 mi SW. and S. along mountain rd. to top of gap; 40 ft W. of centerline of rd. at cross-trails; in sandstone outcrop; standard tablet stamped "TI 95 IWC 1952 1936.154"

X = 3,014,564 Y = 447,797 37 30 42.00 82 15 04.99

Varney, 2.8 mi NW. of, along graveled rd.; 105 ft NW. of small creek crossing; 33 ft W. of dirt rd. crossing; 25 ft SW. of centerline of rd.; in concrete post; standard tablet stamped "TI 70 IWC 1952 794.769"

X = 2,954,370 Y = 501,402 37 39 53.05 82 27 08.41

STATION	DESCRIPTION	LATITUDE	LONGITUDE
PLANE COORDINATES, FEET		° ' "	° ' "

OBSOLETE MARKS (Cont'd.)

Varney, 0.8 mi NW. of post office; at mouth of Hurricane Branch on Left Fork; 30 ft SW. of, and 18 ft lower than centerline of rd.; in sandstone outcrop; standard tablet stamped "857 KY"			
Ky. S.)	X = 2,959,771	Y = 494,486	
			37 38 42.85
			82 26 04.30
Varney, 1.6 mi E. of, along dirt rd.; at Smith Cemetery; 22 ft E. of centerline of rd. at fenceline W. along footpath to cemetery; 305 ft SW. of white asbestos siding house; 56 ft NW. of powerline pole; in concrete post; standard tablet stamped "TI 71 TWC 1952"			
	X = 2,970,084	Y = 493,429	
			37 38 28.81
			82 23 56.63
Varney, 3.7 mi NE. of; at residence of A. J. Ray; 19 ft N. and 22 ft E. of centerline of rd. at entrance to coal tipple; 38 ft E. of N. end of concrete culvert; 3 ft NE. of mailbox; in concrete post; standard tablet stamped "TI 72 TWC 1952"			
	X = 2,973,386	Y = 502,097	
			37 39 53.29
			82 23 11.77
Varney, 4.3 mi NE. of, along dirt rd., thence 1.2 mi W. along State Highway 468; 20 ft W. of centerline of rd. at footpath entrance to residence of Mose Copley; 12 ft SW. of mailbox; 4 ft NE. of power pole; in concrete post; standard tablet stamped "TI 73 TWC 1952"			
	X = 2,975,013	Y = 507,058	
			37 40 41.74
			82 22 49.35
Varney, 4.3 mi NE. of, along dirt rd., thence 3.4 mi NE. along State Highway 468; 26 ft E. of centerline of hwy. at junction of field rd. SE.; 12 ft SE. of large sandstone boulder; at base of steep slope; in concrete post; standard tablet stamped "TI 74 TWC 1952" (Not found, 1963)			
	X = 2,980,335	Y = 511,694	
			37 41 25.66
			82 21 41.12
Molan, 4.3 mi SW. of RR. station, along State Highway 468; 27 ft E. of centerline of rd.; 1 ft S. and 2 ft W. of SW. corner of private cemetery; in concrete post; standard tablet stamped "TI 75 TWC 1952"			
	X = 2,984,763	Y = 517,843	
			37 42 24.84
			82 20 43.31
Molan, 2.4 mi SW. of RR. station, along State Highway 468; 103 ft SW. of centerline of hwy.; 8 ft S. and 21 ft E. of SE. corner of Maynards Grocery Store; 15 ft SE. of centerline of driveway to store; in concrete post; standard tablet stamped "TI 76 TWC 1952 694.792"			
	X = 2,982,837	Y = 524,079	
			37 43 27.14
			82 21 04.46

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBsolete MARKS (Cont'd.)

Williamson, 1.9 mi E. of station, along N. & W. RR.; at switch of spur track to Cinderella Coal Mine; 70 ft S. of centerline of U.S. Highway 52 at divergence of hwy. from RR.; 45 ft N. of N. rail of main westbound track; 14 ft N. of pole; in concrete post; NGS standard disk stamped "C 34 1935" (Not found, 1963)

Ky. S.)    X = 3,012,712    Y = 501,618    37 39 34.54    82 15 03.24

MARK TIED BY NGS

By T. W. Cayce, 1951-1952; Book AH 270

Piso, 2.9 mi NW. of, along dirt and graveled rd. to footbridge 0.1 mi N. of sawmill, thence by foot across footbridge up mountain to SW. to top of ridge, thence right along ridge to near highest point, thence left along narrow ridge to top of second peak; on highest point in vicinity; 17 ft N. of oak tree with triangular blaze on N. side; on iron pipe; standard tablet not stamped designated "FLAG"

X = 2,942,933.14    Y = 498,630.41    37 39 29.590    82 29 31.754

OD. #112 Ky - 20 W. Va

Station: FLAG (USGS) County: Pike State: Kentu  
 Observer: Kv. Sv-Fred. Coal Co. Year: 1929 Datum: 1927 N.A.D.

Description:

On a high knob on ridge between Lowe Branch and Brushy Fork, about 3/4 mile from junction of said streams.

Station mark: Iron hub with USGS triangulation tablet on top and projecting about 1 ft above the surface.

Reference mark 1: nail in 14-in. black oak stump, 23.47 ft from station in true azimuth 143°14'.

Reference mark 2: cross mark cut in rock on N. end of knob, 79.67 ft from station in true azimuth 195°43'.

X = 2942933

Y = 498630

Latitude 37 39 29.590

Longitude 82 29 31.754

To Station	Azimuth			Back Azimuth			Distance	Miles
							<del>XXXXXX</del> Feet.	
Cow	118	52	49.7	298	50	11.1	23812.92	
Standifer (USGS) (USCGS)	133	18	20.6	313	11	11.8	77273.58	
Maynard	143	13	46.4	323	12	30.4	16705.03	
Hurricane (USGS)	179	30	15.0	359	30	11.9	46625.05	

112 1/4 - 20 W. Va.

R 20  
 B Station: CHESTNUTCAMP County: Mingo State: WEST VA  
 C Observer: E. L. McNAIR, Year: 1939 Datum: 1927 N. A. D. by Grant  
 O Description:  
 Bnl. 496  
 4/1/57/113

WILLIAMSON QUADRANGLE

On knob at head of Pigeon Creek, which empties into Tug River about 1.2 mi. below Nolan. Knob is at head of Chestnutcamp Branch and also Rearden Beech Branch. It is also about 0.2 mile SW. of head of Couley Branch of Pigeon Creek and may be reached from J. H. Starr's place at mouth of Couley Branch. The knob is a narrow ridge about 400 ft. long. East end entirely cleared.

Signal: A quadruped of usual form.

Station mark: A bronze triangulation tablet set in flat sandstone of irregular shape weighing 300 pounds or more. Rock flush with surface of ground.

Reference marks: No. 1 is glass bottle 6 inches below surface, distant 13.5 ft., true azimuth 190°39'. No. 2 is glass bottle 4 in. below surface, distant 12 ft., true azimuth 279°35'. No. 3 is 12-inch chestnut oak tree, distant 97 feet, true azimuth 218°04'.

[Latitude 37 43 47.04 Longitude 82 15 01.59 ]

To Station	Azimuth			Back Azimuth			Distance	
							Log. Meters	Miles
Canada	33	18	33	213	14	30	4.249371	.....
Flag	69	39	15	249	30	23	4.356943	.....
Hurricane	106	23	53	286	14	57	4.348774	.....
Anthony	159	37	17	339	34	42	4.247632	.....
Rumyon	193	16	42	13	18	13	4.201486	.....
Rattlesnake	235	11	50	55	21	05	4.430322	.....
Taylor	320	28	48	140	31	21	3.984499	.....
Dick	355	27	51	175	28	41	4.405582	.....